

In re Patent Application of:  
**BRANCIFORTE ET AL.**  
Serial No. 10/701,160  
Filing Date: **NOVEMBER 4, 2003**

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**REMARKS**

Applicants would like to thank the Examiner for the thorough examination of the present application. Applicants would also like to thank the Examiner for allowing Claims 14-26, and for indicating that Claims 27-32 would be allowed if rewritten to overcome the rejection under 35 U.S.C. §101.

Independent Claim 27 has been amended to recite that the method for running a quantum algorithm is "for searching a database". Support for the claim amendment may be found in paragraph 3, for example. The subject matter of independent Claim 27 is thus directed to a specific application of "searching a database" in which an item being searched in the database is provided. The Applicants submit that Claim 27 overcomes the rejection under 35 U.S.C. §101.

The Examiner also noted that FIGS. 1-7 are to be labeled as prior art. A copy of the replacement drawing sheets filed November 4, 2003 labeling the prior art figures is enclosed herewith. Please note that only FIGS. 1-2B are prior art figures.

In view of the amendments to the claims and the remarks provided herein, it is submitted that Claims 27-32 are patentable. Accordingly, a Notice of Allowance is requested in due course. Should any minor informalities need to be addressed, the Examiner is encouraged to contact the undersigned attorney at the telephone number listed below.

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Respectfully submitted,

  
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